J. Electroanal. Chem., 326 (1992) 365
Elsevier Sequoia S.A., Lausanne

Author index

Aldaz, A. 113

Borovkov, V.V. 197
Brisard, G.M. 317
Büchner, W. 357

Cai, R. 345
Casassas, E. 299
Clavilier, J. 113
Climent, M.A. 113
Conway, B.E. 177, 277

Daujotis, V. 253
Diard, J.-P. 13
Díaz-Cruz, J.M. 299
Doblhofer, K. 139

Einaga, H. 351
Esteban, M. 299
Evstigneeva, R.P. 197

Fache, F. 357
Fawcett, W.R. 91
Feil, D. 105
Feliu, J.M. 113
Foss Jr., C.A. 91
Fujishima, A. 345

Gani, D. 37
González, M.L.G. 323
Grätzel, M. 161
Guidelli, R. 331

Hadži-Jordanov, S. 177
Hashimoto, K. 345
Horiuchi, T. 339
Huang, W. 1

Ikeda, S. 351
Ingram, G. 81
Ito, K. 351
Ives, M.B. 51

Kassmi, A.E. 357
Katz, E.Y. 197
Kováčová, Z. 91
Kubota, Y. 345
Kutner, W. 139

Lasia, A. 317
Le Gorrec, B. 13
Lemaire, M. 357
Lu, Y.C. 51
Luo, J.L. 51

Mallik, B. 37
Manzini, M. 317
Mas, F. 299
McCreery, R. 1
Meulenkamp, E.A. 213
Moncelli, M.R. 331
Montella, C. 13
Morita, M. 339
Motheo, A.J. 91
Mulder, W. 231
Murcia, N.S. 69

Niwa, O. 339
Nomura, K. 351

Obendorf, D. 81
Oskam, G. 213

Palys, B.J. 105
Peters, D.G. 69
Puppels, G.J. 105
Puy, J. 299

Raudonis, R. 253
Rieker, C. 81

Salvador, P. 323

Tabei, H. 339
Terrettaz, S. 161

Valls, M.J. 113
Van den Ham, D. 105
Vogel, H. 161

Wojtowicz, J. 277

Yamagishi, H. 129

J. Electroanal. Chem., 326 (1992) 367–371
Elsevier Sequoia S.A., Lausanne

Subject index

Ac admittance technique
Application of the ac admittance technique to double-layer studies on polycrystalline gold electrodes (Fawcett et al.) 91
Admittance
The influence of self-similar roughness on electrode admittance in the presence of diffusion-limited interfacial processes (Mulder) 231
Adsorption
Mechanism of cadmium underpotential adsorption on platinum electrodes from acidic aqueous media. Part I. Analysis of potential step relaxation data at the initial stage of cadmium underpotential adsorption (Daujotis, Raudonis) 253
Induced reactant adsorption in normal pulse polarography of labile metal polyelectrolyte systems. Part 1. Study of current–potential relationship assuming potential-independent adsorption parameters (Mas et al.) 299
Anisic acid
Electroreductive carboxylation of halobenzenes. Production of *p*-anisic acid by reduction of *p*-iodoanisole at mercury in dimethylformamide saturated with carbon dioxide (Murcia, Peters) 69
Aqueous media
Mechanism of cadmium underpotential adsorption on platinum electrodes from acidic aqueous media. Part I. Analysis of potential step relaxation data at the initial stage of cadmium underpotential adsorption (Daujotis, Raudonis) 253
Aqueous solution
The electrochemistry of InP in aqueous $K_3Cr(CN)_6$ solution (Oskam, Meulenkamp) 213
Automatic compensation
Automatic compensation of the *IR* drop in three-electrode systems by use of an electronic unit (Yamagishi) 129
β-cyclodextrin polymer
Simultaneous cyclic voltammetry and electrochemical quartz-crystal microbalance study at polymer film-modified electrodes of molecular inclusion of ferrocene by β-cyclodextrin polymer and carboxymethylated β-cyclodextrin polymer as well as ferrocenecarboxylic acid by β-cyclodextrin polymer (Kutner, Doblhofer) 139
Bilayer lipid membranes
Test of the Gouy–Chapman theory on phosphatidylcholine-coated mercury from differential capacity measurements (Moncelli, Guidelli) 331
Buffered solutions
The behaviour of platinum single-crystal electrodes in neutral phosphate buffered solutions (Climent et al.) 113
Cadmium
Mechanism of cadmium underpotential adsorption on platinum electrodes from acidic aqueous media. Part I. Analysis of potential step relaxation data at the initial stage of cadmium underpotential adsorption (Daujotis, Raudonis) 253
Carbon dioxide
Electroreductive carboxylation of halobenzenes. Production of *p*-anisic acid by reduction of *p*-iodoanisole at mercury in dimethylformamide saturated with carbon dioxide (Murcia, Peters) 69
Carboxylation
Electroreductive carboxylation of halobenzenes. Production of *p*-anisic acid by reduc-

tion of *p*-iodoanisole at mercury in dimethylformamide saturated with carbon dioxide (Murcia, Peters) 69

Ca^{2+} sensor

Ca^{2+}-sensitive monolayer electrodes (Terrettaz et al.) 161

Chlorine

Unusual aspects of anodic Cl_2 evolution behaviour at RuO_2 electrodes below room temperature (Hadžī-Jordanov, Conway) 177

Chromium

The electrochemistry of InP in aqueous $K_3Cr(CN)_6$ solution (Oskam, Meulenkamp) 213

TiO_2 photoetching mechanisms: efficient photocatalytic corrosion of rutile in the presence of $Cr_2O_7^{2-}$ (González, Salvador) 323

Cobalt

Kinetics of the electroreduction of Co(salen) in DMSO (Brisard et al.) 317

Confocal Raman microspectrometer

Raman spectra of zinc phthalocyanine monolayers adsorbed on glassy carbon and gold electrodes by application of a confocal Raman microspectrometer (Palys et al.) 105

Corrosion

Microelectrodes for the study of localized corrosion (Luo et al.) 51

TiO_2 photoetching mechanisms: efficient photocatalytic corrosion of rutile in the presence of $Cr_2O_7^{2-}$ (González, Salvador) 323

Cyanide

The electrochemistry of InP in aqueous $K_3Cr(CN)_6$ solution (Oskam, Meulenkamp) 213

Cyanide electrode

Electron transfer kinetics of $Fe(CN)_6^{3-/4-}$ on laser-activated and CN^--modified Pt electrodes (Huang, McCreery) 1

Derivatized electrodes

Ca^{2+}-sensitive monolayer electrodes (Terrettaz et al.) 161

Desorption

Time-scales of electrochemical desorption and sorption of H in relation to dimensions and geometries of host metal hydride electrodes (Conway, Wojtowicz) 277

Dichromate

TiO_2 photoetching mechanisms: efficient photocatalytic corrosion of rutile in the presence of $Cr_2O_7^{2-}$ (González, Salvador) 323

Dimethylformamide

Electroreductive carboxylation of halobenzenes. Production of *p*-anisic acid by reduction of *p*-iodoanisole at mercury in dimethylformamide saturated with carbon dioxide (Murcia, Peters) 69

DMSO

Kinetics of the electroreduction of Co(salen) in DMSO (Brisard et al.) 317

Electrochemical impedances

Calculation, simulation and interpretation of electrochemical impedances. Part 3.: Conditions for observation of low frequency inductive diagrams for a two-step electron transfer reaction with an adsorbed intermediate species. (Diard et al.) 13

Electron transfer

Electron transfer kinetics of $Fe(CN)_6^{3-/4-}$ on laser-activated and CN^--modified Pt electrodes (Huang, McCreery) 1

Kinetics of electron transfer in a mono-linked isoalloxazine–gold electrode (Mallik, Gani) 37

Oxidation state and electron transfer properties of heteronuclear termetallocenes $[\{(C_5H_5)M\}_2\{\eta^5:\eta^{5'}\text{-}C_{10}H_8\}_2M']^{n+}$ ($n=1$, $M \equiv$ Fe, $M' \equiv$ Co; $n=2$, $M \equiv$ Co, $M' \equiv$ Os, Ru): an electrochemical study (Obendorf et al.) 81

Electroreduction

Kinetics of the electroreduction of Co(salen) in DMSO (Brisard et al.) 317

Evolution

Unusual aspects of anodic Cl_2 evolution behaviour at RuO_2 electrodes below room temperature (Hadžī-Jordanov, Conway) 177

Ferrocene

Simultaneous cyclic voltammetry and electrochemical quartz-crystal microbalance study at polymer film-modified electrodes of molecular inclusion of ferrocene by β-cyclodextrin polymer and carboxymethylated β-cyclodextrin polymer as well as ferrocenecarboxylic acid by β-cyclodextrin polymer (Kutner, Doblhofer) 139

Ferrous cyanide

Electron transfer kinetics of $Fe(CN)_6^{3-/4-}$ on laser-activated and CN^--modified Pt electrodes (Huang, McCreery) 1

Framework structure

Framework structure, phase transition and

ionic conductivity of $MgZr_4(PO_4)_6$ and $ZnZr_4(PO_4)_6$ (Nomura et al.) 351

Glassy carbon electrode
Raman spectra of zinc phthalocyanine monolayers adsorbed on glassy carbon and gold electrodes by application of a confocal Raman microspectrometer (Palys et al.) 105

Gold electrode
Raman spectra of zinc phthalocyanine monolayers adsorbed on glassy carbon and gold electrodes by application of a confocal Raman microspectrometer (Palys et al.) 105

Gold electrodes
Application of the ac admittance technique to double-layer studies on polycrystalline gold electrodes (Fawcett et al.) 91

Halobenzenes
Electroreductive carboxylation of halobenzenes. Production of *p*-anisic acid by reduction of *p*-iodoanisole at mercury in dimethylformamide saturated with carbon dioxide (Murcia, Peters) 69

Hydrogen
Time-scales of electrochemical desorption and sorption of H in relation to dimensions and geometries of host metal hydride electrodes (Conway, Wojtowicz) 277

Hydrogen peroxide
Conversion of photogenerated superoxide anion into hydrogen peroxide in TiO_2 suspension system (Cai et al.) 345

Indium
The electrochemistry of InP in aqueous $K_3Cr(CN)_6$ solution (Oskam, Meulenkamp) 213

Inductive diagrams
Calculation, simulation and interpretation of electrochemical impedances. Part 3.: Conditions for observation of low frequency inductive diagrams for a two-step electron transfer reaction with an adsorbed intermediate species. (Diard et al.) 13

Iodoanisole
Electroreductive carboxylation of halobenzenes. Production of *p*-anisic acid by reduction of *p*-iodoanisole at mercury in dimethylformamide saturated with carbon dioxide (Murcia, Peters) 69

Ionic conductivity
Framework structure, phase transition and ionic conductivity of $MgZr_4(PO_4)_6$ and $ZnZr_4(PO_4)_6$ (Nomura et al.) 351

IR drop
Automatic compensation of the *IR* drop in three-electrode systems by use of an electronic unit (Yamagishi) 129

Isoalloxazine–gold
Kinetics of electron transfer in a mono-linked isoalloxazine–gold electrode (Mallik, Gani) 37

Lability
Induced reactant adsorption in normal pulse polarography of labile metal polyelectrolyte systems. Part 1. Study of current–potential relationship assuming potential-independent adsorption parameters (Mas et al.) 299

Laser-activation
Electron transfer kinetics of $Fe(CN)_6^{3-/4-}$ on laser-activated and CN^--modified Pt electrodes (Huang, McCreery) 1

Mercury electrode
Test of the Gouy–Chapman theory on phosphatidylcholine-coated mercury from differential capacity measurements (Moncelli, Guidelli) 331

Metal hydride electrodes
Time-scales of electrochemical desorption and sorption of H in relation to dimensions and geometries of host metal hydride electrodes (Conway, Wojtowicz) 277

Microelectrodes
Microelectrodes for the study of localized corrosion (Luo et al.) 51

Molecular inclusion
Simultaneous cyclic voltammetry and electrochemical quartz-crystal microbalance study at polymer film-modified electrodes of molecular inclusion of ferrocene by β-cyclodextrin polymer and carboxymethylated β-cyclodextrin polymer as well as ferrocenecarboxylic acid by β-cyclodextrin polymer (Kutner, Doblhofer) 139

Phase transition
Framework structure, phase transition and ionic conductivity of $MgZr_4(PO_4)_6$ and $ZnZr_4(PO_4)_6$ (Nomura et al.) 351

Phospholipid coating
Test of the Gouy–Chapman theory on phosphatidylcholine-coated mercury from differential capacity measurements (Moncelli, Guidelli) 331

Phosphorus
The electrochemistry of InP in aqueous $K_3Cr(CN)_6$ solution (Oskam, Meulenkamp) 213

Photocatalysis
TiO_2 photoetching mechanisms: efficient photocatalytic corrosion of rutile in the presence of $Cr_2O_7^{2-}$ (González, Salvador) 323
Photoetching
TiO_2 photoetching mechanisms: efficient photocatalytic corrosion of rutile in the presence of $Cr_2O_7^{2-}$ (González, Salvador) 323
Photogeneration
Conversion of photogenerated superoxide anion into hydrogen peroxide in TiO_2 suspension system (Cai et al.) 345
Platinum
Mechanism of cadmium underpotential adsorption on platinum electrodes from acidic aqueous media. Part I. Analysis of potential step relaxation data at the initial stage of cadmium underpotential adsorption (Daujotis, Raudonis) 253
Platinum single-crystal electrodes
The behaviour of platinum single-crystal electrodes in neutral phosphate buffered solutions (Climent et al.) 113
Polarography
Induced reactant adsorption in normal pulse polarography of labile metal polyelectrolyte systems. Part 1. Study of current–potential relationship assuming potential-independent adsorption parameters (Mas et al.) 299
Poly(fluorinated 3-alkoxy thiophene)
Poly(fluorinated 3-alkoxy thiophene) (Kassmi et al.) 357
Quinones
Application of quinone thio derivatives as a basis for assembling complex molecular systems at an electrode surface (Katz et al.) 197
Redox cycling
Highly sensitive detection of reversible species by self-induced redox cycling (Tabei et al.) 339
Reduction
Oxidation state and electron transfer properties of heteronuclear termetallocenes $[\{(C_5H_5)M\}_2\{\eta^5:\eta^{5'}\text{-}C_{10}H_8\}_2M']^{n+}$ ($n = 1$, $M \equiv Fe$, $M' \equiv Co$; $n = 2$, $M \equiv Co$, $M' \equiv Os$, Ru): an electrochemical study (Obendorf et al.) 81
Reversible species
Highly sensitive detection of reversible species by self-induced redox cycling (Tabei et al.) 339
Ruthenium
Unusual aspects of anodic Cl_2 evolution behaviour at RuO_2 electrodes below room temperature (Hadži-Jordanov, Conway) 177
Rutile
TiO_2 photoetching mechanisms: efficient photocatalytic corrosion of rutile in the presence of $Cr_2O_7^{2-}$ (González, Salvador) 323
Self-similar roughness
The influence of self-similar roughness on electrode admittance in the presence of diffusion-limited interfacial processes (Mulder) 231
Sorption
Time-scales of electrochemical desorption and sorption of H in relation to dimensions and geometries of host metal hydride electrodes (Conway, Wojtowicz) 277
Superoxide anion
Conversion of photogenerated superoxide anion into hydrogen peroxide in TiO_2 suspension system (Cai et al.) 345
Suspension system
Conversion of photogenerated superoxide anion into hydrogen peroxide in TiO_2 suspension system (Cai et al.) 345
Termetallocenes
Oxidation state and electron transfer properties of heteronuclear termetallocenes $[\{(C_5H_5)M\}_2\{\eta^5:\eta^{5'}\text{-}C_{10}H_8\}_2M']^{n+}$ ($n = 1$, $M \equiv Fe$, $M' \equiv Co$; $n = 2$, $M \equiv Co$, $M' \equiv Os$, Ru): an electrochemical study (Obendorf et al.) 81
Thio-quinone derivatives
Application of quinone thio derivatives as a basis for assembling complex molecular systems at an electrode surface (Katz et al.) 197
Three-electrode systems
Automatic compensation of the *IR* drop in three-electrode systems by use of an electronic unit (Yamagishi) 129
Titanium
TiO_2 photoetching mechanisms: efficient photocatalytic corrosion of rutile in the presence of $Cr_2O_7^{2-}$ (González, Salvador) 323
Two-step electron transfer
Calculation, simulation and interpretation of electrochemical impedances. Part 3.: Conditions for observation of low frequency inductive diagrams for a two-step electron transfer reaction with an adsorbed intermediate species. (Diard et al.) 13

Zinc phthalocyanine monolayers
Raman spectra of zinc phthalocyanine monolayers adsorbed on glassy carbon and gold electrodes by application of a confocal Raman microspectrometer (Palys et al.) 105

Zirconium phosphate
Framework structure, phase transition and ionic conductivity of $MgZr_4(PO_4)_6$ and $ZnZr_4(PO_4)_6$ (Nomura et al.) 351